

What is claimed is:

- 1 1. An elongated cutting tool intended to plunge cut a blind form in a bone using a plurality of
2 teeth (30, 130) arranged on the tool, at least one of the teeth being an undercut tooth (30, 130)
3 having a cutting edge (470, 570), the undercut tooth (30, 130) having a profile defined
4 substantially along a primary relief angle (480, 580) measured from a vertical reference plane
5 (477, 577) passing through the cutting edge (470, 570) and by a positive rake angle (485, 585)
6 measured from a horizontal reference plane (472, 572) passing through the cutting edge (470,
7 570), wherein the undercut tooth has a parabolic, non-circular relief (490, 590) along which bone
8 chips are guided substantially away from the bone being cut, thereby avoiding capturing debris in
9 the teeth and, consequently, avoiding overstressing the bone during cutting.
- 1 2. The tool of claim 1, wherein the tool is a broach.
- 1 3. The tool of claim 1, wherein the tool is a rasp.
- 1 4. The tool of claim 3, wherein the teeth (130, 140) are arranged generally in a diamond shape
2 pattern oriented at an angle (160) in relationship to a drive axis (150).
- 1 5. The tool of claim 4, wherein the angle is formed in a helix in which the teeth are disposed
2 about the tool in a helical pattern.
- 1 6. The tool of claim 5, wherein the teeth are arranged so as to progressively increase in size along
2 the helix.
- 1 7. The tool of claim 1, wherein the tool includes at least one chip breaker (40, 140).
- 1 8. The tool of claim 2, wherein the tool includes at least one chip breaker (40, 140).
- 1 9. The tool of claim 1, wherein a handle interface (220) is provided for attachment to a modular
2 handle interface.